

Solar Charge Regulator

MODELS: LL-REG-24v-5A



FLOAT Charging (Battery 100%)

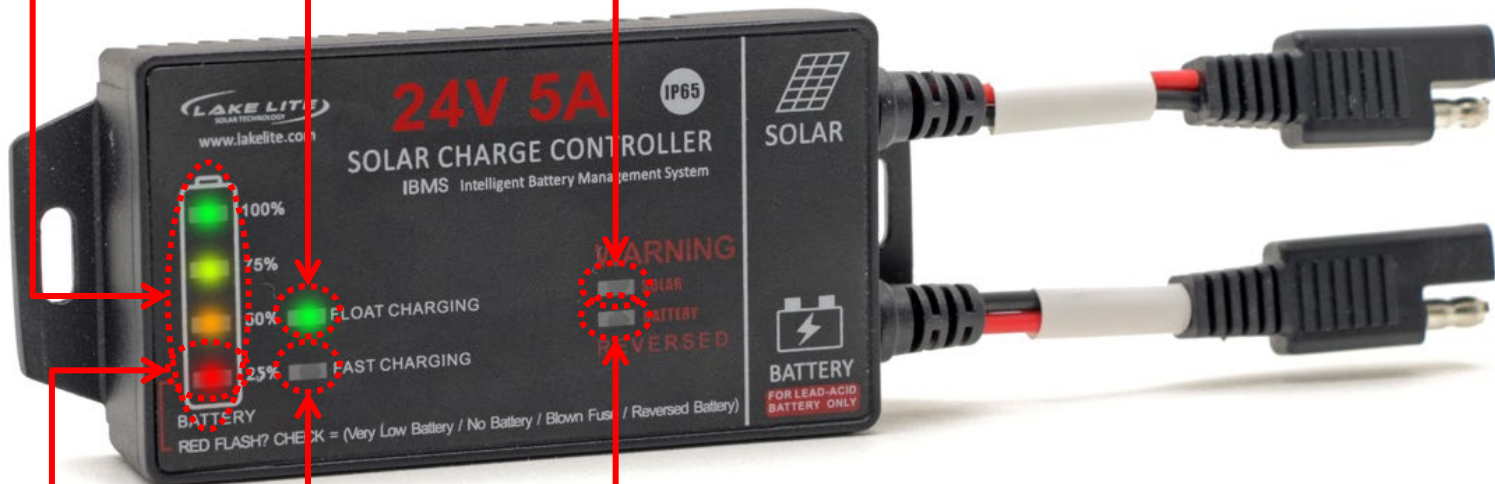


Battery Level



Reversed Solar Polarity!

- Correct solar panel wiring



**FAST Charging
(Battery < 100%)**



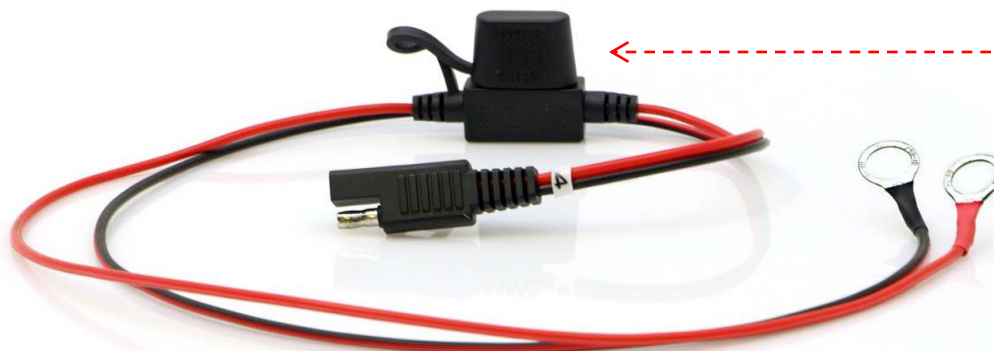
Reversed Battery Polarity!

- Internal 5A Auto Fuse Tripped: - correct wiring
- **NOTE:** Light Does Now show when smaller **3A BLADE FUSE** near the battery blows first. →
- **NOTE:** Always use **5A or smaller BLADE FUSE** between battery and charge regulator. →
- *Internal Auto-Fuse is Last Resort Protection!*



Red Flashing: (Possible Causes)

- **Battery = VERY LOW:** *Working correctly: Allow battery to charge*
- **NO Battery Connection** *Connect battery / check wire connections*
- **Blown Blade Fuse** *Replace Mini Blade Fuse 3A (5A max) →*
- **Reversed Battery:** *Correct Wiring, Replace blown blade fuse →*



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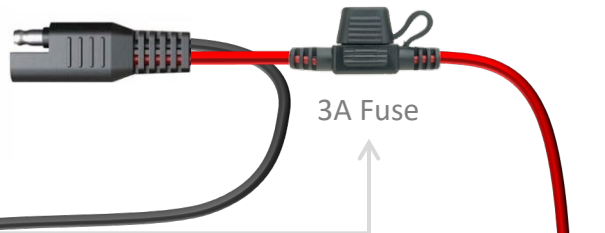
CONNECTION DIAGRAM



LAKE LITE
24v Charging
Solar Panel



Extension
Wire



3A Fuse

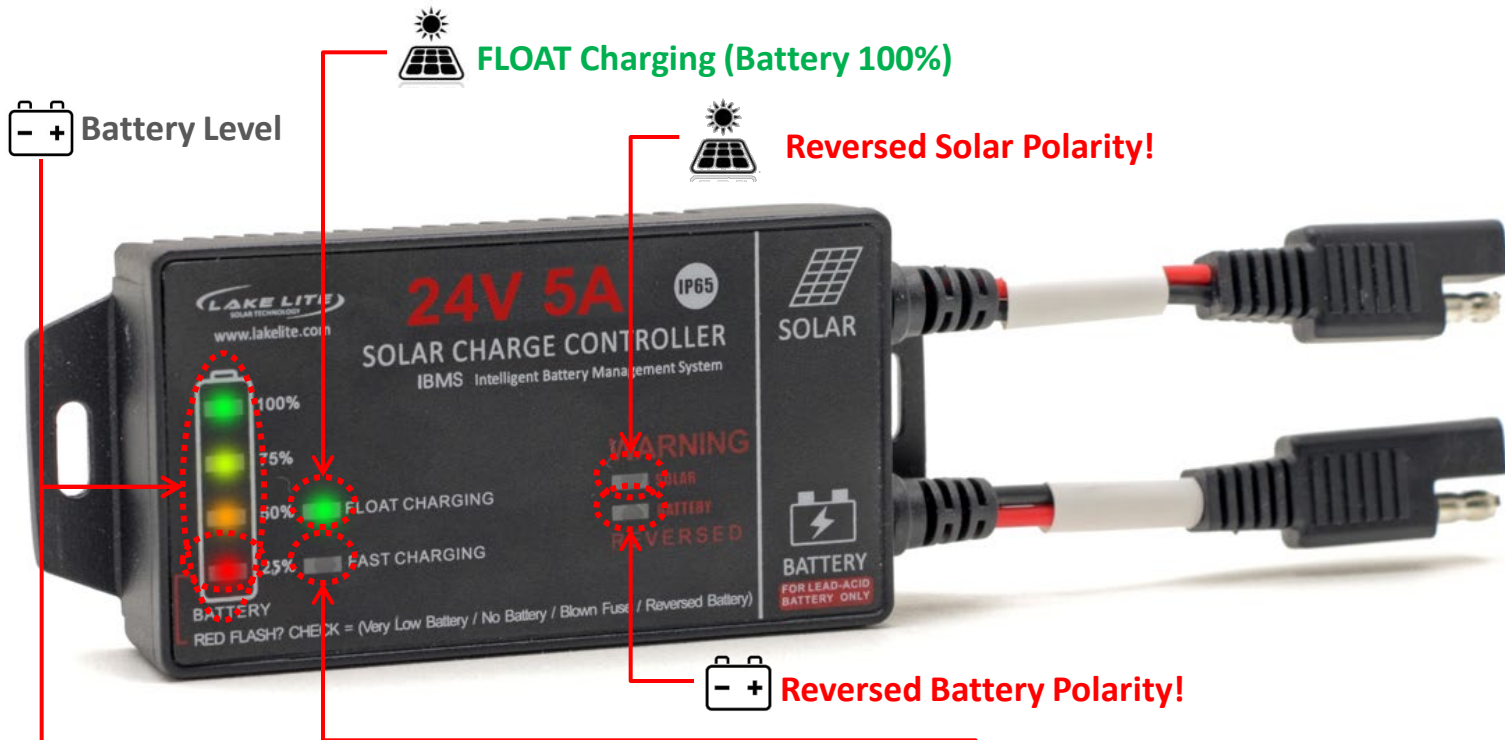
Replace with 3A or (5A Max) Fuse



Jumper

Solar Charge Regulator

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BATTERY LED INDICATORS

TIME	LED COLOR	DESCRIPTION
Any	RED - FLASHING <hr style="border-top: 1px dashed red;"/>	Extremely Low Battery OR (BLOWN FUSE) <i>OR (Backwards / No Connection)</i>
Any	RED - CONSTANT	Very Low Battery Level – Limit Battery Use
Any	ORANGE - CONSTANT	Medium Battery Level – Charge Battery
Any	GREEN - CONSTANT	High Battery Level – Good!
ANY	GREEN - FLASHING <hr style="border-top: 1px dashed green;"/>	Over Voltage Detected: Regulator will correct back to Green-Constant to protect battery:
ANY	OFF	Blown Fuse and or No Battery Detected Replace Fuse or Connect Battery



SOLAR LED INDICATORS

TIME	LED COLOR	DESCRIPTION
DAY	BLUE - CONSTANT	(Charging) Fast Charging or Bulk Charging
DAY	GREEN-CONSTANT	Float Charging
DAY	OFF	Check Solar Panel (Shorted / Bad or No Connection / Bad Diode)
NIGHT	OFF	Solar Panel is NOT Charging

PRE-CHECK # 1: Connect Regulator ONLY to Battery and confirm Battery Status LED Turns On.

* **NOTE (Solar Panel NOT Connected)**

PRE-CHECK # 2: Connect Regulator ONLY to Solar panel and confirm Charging Status LED Turns On.

* **NOTE (Battery is NOT connected)**

NOTE: If both Pre-Checks are OK: Regulator is functioning correctly.

FLASHING RED BATTERY LED: Likely result of a blown fuse, bad, broken, or no connection. Correct or replace wiring.



Lake Lite Inc.
105 W Simon St
Laotio, IN 46763

Phone: 260-918-2758
Fax: 260-918-3540
E-mail sales@lakelite.com

www.lakelite.com

Solar Charge Regulator

MODELS: LL-REG-24v-5A

Owner Registration Card

Please fill out and affix proper postage and return this owner registration card **within 10 days** to insure that your new Regulator is covered by the limited warranty.

Purchaser's Name _____.

Address _____.

State _____, Zip _____.

Purchase Date: _____, Number of Units: _____.

Where Purchased (Store Name): _____.

Model No. LL-REG-24v-5A

UPC No. Varies On Different Models

Lake Lite Inc.
105 W Simon St. Laotto, IN 46763

Lake Lite Inc. 1-Year Limited Warranty

The retailer warrants the Solar Regulator to be free from defects in workmanship and material present at time of shipment from the factory for a period of one year after the date of purchase by the original purchaser. We agree to correct such defects without charge or at our option replace with a comparable or superior model if the product is returned to the retailer. To obtain warranty service, you must present a copy of the receipt as proof of purchase. All costs of removing and reinstalling the product are your responsibility. Damage to any part such as by accident or misuse or improper installation or by affixing any accessories, is not covered by this warranty. There is no other express warranty. The retailer hereby disclaims any and all warranties, including but not limited to, those of merchantability and fitness for a particular purpose to the extent permitted by law. The duration of any implied warranty, which cannot be disclaimed, is limited to the time period as specified in the express warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. The retailer shall not be liable for incidental, consequential, or special damages arising out of or in connection with product use or performance except as may otherwise be accorded by law. Some states do not allow the exclusion of incidental or consequential damage, so the above exclusion or limitation may apply to you. This warranty gives specific legal rights, and you may also have other rights, which vary from state to state. This warranty supersedes all prior warranties.



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